

## ABSTRACT

The power consumption of a receiving apparatus is reduced. A first equalization unit receives the input of digital signals and then performs equalization processing on them so as to output first equalizer output signals. A first selector selects either the digital signals or the first equalizer output signals, and outputs the selected signals to an despread unit or a second equalization unit. The despread unit carries out an despread, and an PSK demodulation unit demodulates the despread signal by PSK. The second equalization unit performs equalization processing, and a CCK demodulation unit performs CCK demodulation. A second selector operates in response to the second selector. A modulation scheme determining unit extracts information on a modulation scheme in use, from the signal demodulated by the PSK demodulation unit so as to decide on the modulation scheme. Based on the modulation scheme determined, a decision unit specifies the selection of signals at the first selector and the second selector.